

**Amendments to the Claims**

1. (Currently Amended) A method for producing chitosan from fungal biomass chitin-containing material, comprising:  
reacting the fungal biomass chitin-containing material with a caustic at a pressure greater than 0 PSIG, thereby producing chitosan.
2. (Original) The method according to claim 1, further comprising separating the chitosan from the reaction.
3. (Original) The method according to claim 1, wherein the pressure is greater than 5 psig.
4. (Original) The method according to claim 1, wherein the pressure is greater than 10 psig.
5. (Original) The method according to claim 1, wherein the temperature is greater than 115°C.
6. (Original) The method according to claim 1, wherein the temperature is greater than 125°C.
7. (Original) The method according to claim 1, wherein the reaction occurs for least 1 hour.
8. – 10. (Canceled)